CLAIMS

What is claimed is:

1. 1. A system for testing JMX monitors, the system comprising:

2. (a) a generator adapted to generate a signal;

3. (b) a monitor adapted to monitor the signal; and

4. (c) a notifier adapted to generate a notification in response to the

5. monitoring of the signal by the monitor.

1. 2. A system according to claim 1, further comprising a listener for

2. receiving the notification.

1. 3. A system according to claim 1, further comprising an interface

2. adapted to allow entry of at least one parameter to be used in

3. generating the signal.

1. 4. A system according to claim 1, further comprising a source of at

2. least one equation to be used in generating the signal.

1. 5. A system according to claim 3, wherein said source is selected from

2. the group consisting of data libraries, data files, application code, or

3. user entry.

1   6.   A system according to claim 1, further comprising a timer, adapted
2   to control the time for testing.

1   7.   A system according to claim 1, wherein the monitor monitors the
2   signal at a frequency at least twice the frequency of the signal.

1   8.   A system according to claim 1, further comprising a processor
2   adapted to execute the generation of the signal.

1   9.   A signal generator comprising:

2   (a) a generator MBean adapted to generate a signal; and

3   (b) a library of equations for use in the generator MBean, each

4   equation representing a signal capable of being generated by the

5   generator MBean.

1   10.   A signal generator according to claim 8, further comprising an
2   interface adapted to allow selection of an equation from the library
3   to be used in generating the signal.

1   11.   A signal generator according to claim 9, wherein the interface is
2   further adapted to allow entry of at least one parameter to be used
3   in the equation.

1   12.   A system according to claim 8, further comprising a timer java bean,
2   adapted to control the time for generation of the signal.

1   13.   A method for generating a signal, the method comprising the steps
2   of:
3   (a) selecting an equation from a library, the equation corresponding
4   to the signal to be generated;
5   (b) specifying the appropriate parameters for the equation; and
6   (c) generating a signal corresponding to the equation with the
7   parameters using a generator MBean.

1   14.   A method according to claim 12, further comprising the step of
2   specifying the length of time for generation of the signal.

1   15.   A method for testing a JMX monitor, the method comprising the
2   steps of:
3   (a) generating a signal using a generator MBean;

4   (b) polling the generator bean at a frequency at least twice the

5   frequency of the generated signal using a monitor MBean of the JMX

6   monitor; and

7   (c) returning a testing value for each polling of the generator MBean.

1   16.   A method according to claim 15, further comprising the step of

2   generating a notification when a threshold value of the testing signal

3   is detected by the monitor.

1   17.   A method according to claim 15, further comprising the step of

2   storing the testing values to a data store.

1   18.   A method according to claim 15, further comprising the step of

2   comparing each testing value to the corresponding value of the

3   signal from the generator MBean.

1   19.   A method according to claim 15, further comprising the step of

2   specifying an equation to be used in generating the signal.

1   20.   A method according to claim 15, further comprising the step of
2   specifying at least one parameter to be used in generating the
3   signal.

1   21.   A method according to claim 15, further comprising the step of
2   specifying the frequency of polling.

1   22.   A computer-readable medium, comprising:
2   (a) means for selecting an equation from a library, the equation
3   corresponding to a signal to be generated;
4   (b) means for specifying parameters for the equation; and
5   (c) means for generating a signal corresponding to the equation,
6   with the parameters, using a generator MBean.

1   23.   A computer program product for execution by a server computer for
2   testing a JMX monitor, comprising:
3   (a) computer code for selecting an equation from a library, the
4   equation corresponding to a signal to be generated;
5   (b) computer code for specifying parameters for the equation; and
6   (c) computer code for generating a signal corresponding to the
7   equation, with the parameters, using a generator MBean.

1   24.   A system for testing a JMX monitor, comprising:

2   (a) means for selecting an equation from a library, the equation

3   corresponding to a signal to be generated;

4   (b) means for specifying parameters for the equation; and

5   (c) means for generating a signal corresponding to the equation,

6   with the parameters, using a generator MBean.

1   25.   A computer system comprising:

2   a processor;

3   object code executed by said processor, said object code configured

4   to:

5   (a) select an equation from a library, the equation

6   corresponding to a signal to be generated;

7   (b) specify parameters for the equation; and

8   (c) generate a signal corresponding to the equation, with the

9   parameters, using a generator MBean.